

ABSTRACT

The invention provides a process for preparing a solid titanium catalyst component for use in the preparation of an olefin polymerization catalyst, which comprises:

(1) a step wherein a suspension is prepared which contains a solid material prepared by contacting a magnesium compound with a first titanium compound and having a polybasic carboxylic acid ester supported thereon;

(2) a step wherein the solid material is separated from the suspension; and

(3) a step wherein the solid material is contacted with a second titanium compound under heating;

wherein while the solid material is separated from the suspension in the step (2) and the solid material is supplied to the step (3), the solid material is maintained at a temperature in the range of 70-130°C.